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REMARKS

Specification. The Applicant has amended the specification herein to correct the abstract. No new matter was introduced by the amendment of the specification herein.

Claims 1-7. In the Non-Final Office Action, Examiner Hines rejected pending claims 1-7 on various grounds. The Applicant responds to each rejection as subsequently recited herein, and respectfully requests reconsideration and further examination of the present application under 37 CFR § 1.112:

- A. Examiner Hines rejected claims 2-5 under 35 U.S.C. §112, ¶2 as being indefinite

The Applicant has amended claims 2-5 herein to more particularly point out and distinctly claim the present invention by deleting all recitations of a "higher electronegativity" and a "lower electronegativity". Withdrawal of the rejection of dependent claims 2-5 under 35 U.S.C. §112, ¶2 as being indefinite is therefore respectfully requested.

- B. Examiner Hines rejected claims 1, 2, 4 and 7 under 35 U.S.C. §102(b) as being anticipated by GP 733,853 to *Kreff*

The Applicant has thoroughly considered Examiner Hines's remarks concerning the patentability of claims 1, 2, 4 and 7 over the *Kreff*. The Applicant has also thoroughly read the *Kreff*. To warrant this §102(b) rejection of claims 1, 2, 4 and 7, *Kreff* must show each and every limitation of independent claims 1 and 7 in as complete detail as in contained independent claim 1 and 7. See, MPEP §2131. The Applicant respectfully traverses this §102(b) rejection of amended independent claims 1 and 7, because, among other things, *Kreff* fails to teach or suggest "wherein the coil has a first end region connected to a first current feed, a second end region connected to a second current feed and a central region between the first end region and

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the second end region” and “wherein the coating of the of the electron-emitting material is arranged between the core and the winding exclusively within the central region of the coil” in as complete detail as recited in independent claims 1 and 7. Specifically, *Kreff* is exclusively directed to a distribution of the electron-emitting material all over an electrode. See, *Kreff* at page 2, lines 62-72.

Withdrawal of the rejection of amended independent claims 1 and 7 under 35 U.S.C. §102(b) as being anticipated by *Kreff* is therefore respectfully requested.

Claims 2 and 4 depend from amended independent claim 1. Therefore, dependent claims 2 and 4 include all of the elements and limitations of amended independent claim 1. It is therefore respectfully submitted by the Applicant that dependent claims 2 and 4 are allowable the *Kreff* for at least the same reason as set forth herein with respect to amended independent claim 1 being allowable *Kreff*. Withdrawal of the rejection of dependent claims 2 and 4 under 35 U.S.C. §102(b) as being anticipated by *Kreff* is therefore respectfully requested.

- C. Examiner Rosenbaum rejected claim 5 under 35 U.S.C. §103(a) as being unpatentable over GB 733,853 to *Kreff* in view of U.S. Patent Application Publication No. US 2004/00021418 to *Takahashi* et al.

Claim 5 depends from amended independent claim 1. Therefore, dependent claim 5 includes all of the elements and limitations of amended independent claim 1. It is therefore respectfully submitted by the Applicant that dependent claim 5 is allowable over *Kreff* in view of *Takahashi* for at least the same reason as set forth herein with respect to amended independent claim 1 being allowable over the *Kreff*. Withdrawal of the rejection of dependent claim 5 under 35 U.S.C. §103(a) as being unpatentable over *Kreff* in view of *Takahashi* is therefore respectfully requested.

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- D. Examiner Rosenbaum rejected claim 6 under 35 U.S.C. §103(a) as being unpatentable over GB 733,853 to *Kreff* in view of U.S. Patent No. 5,742,125 to *Ruigrok*

Claim 6 depends from amended independent claim 1. Therefore, dependent claim 6 includes all of the elements and limitations of amended independent claim 1. It is therefore respectfully submitted by the Applicant that dependent claim 6 is allowable over *Kreff* in view of *Ruigrok* for at least the same reason as set forth herein with respect to amended independent claim 1 being allowable over the *Kreff*. Withdrawal of the rejection of dependent claim 6 under 35 U.S.C. §103(a) as being unpatentable over *Kreff* in view of *Ruigrok* is therefore respectfully requested.

Claims 8-12. The Applicant asserts that claims 8-12 depend from amended independent claim 7. Therefore, dependent claims 8-12 include all of the elements and limitations of amended independent claim 7. It is therefore respectfully submitted by the Applicant that dependent claims 8-12 are allowable the *Kreff* for at least the same reason as set forth herein with respect to amended independent claim 7 being allowable *Kreff*. Withdrawal of the rejection of dependent claims 8-12 under 35 U.S.C. §102(b) as being anticipated by *Kreff* is therefore respectfully requested. An allowance of claims 8-12 is therefore respectfully requested.

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SUMMARY

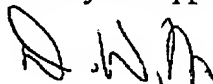
The Applicant respectfully submits that claims 1-12 fully satisfy the requirements of 35 U.S.C. §§ 102, 103 and 112. In view of the foregoing, favorable consideration and early passage to issue of the present application is respectfully requested. If any points remain in issue that may best be resolved through a personal or telephonic interview, Examiner Hines is respectfully requested to contact the undersigned at the telephone number listed below.

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Respectfully submitted,
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